



2013 Think Green Campaign



- Sustainable Energy Policy- Green & sustainable buildings
- Dark Skies Program promotes reduction of light pollution
- Eco Friendly Transportation- Town hybrid vehicles, bus services, alternative transportation routes- bike/pedestrian
- Construction Material Recycling by Public Works
- First municipality to offer comingled recycling
- Rainwater Harvesting- two 5,000 gal and one 1,200 gal cisterns
- Rain barrels and compost bins offered at a discount



Wake Forest Town Hall

- U.S. Green Building Council LEED Platinum Award
- 44,000 square feet, built in 2010
- Old brownfield location- soil remediation required
- Saved two large oak trees in lieu of parking garage
- Connection to Miller Park
- Installed a constructed wetland & bioretention area
- Native non invasive plant species
- Drought tolerant plant selection



Wake Forest Town Hall



- Solar panels on roof
- Recycled/renewable materials used in building
- Low VOCs materials
- Daylighting- lots of windows for natural light
- Water Conservation- Low flush facilities, automatic faucets,
- Energy Conservation- occupancy sensor lights, HVAC

<http://www.wakeforestnc.gov/leed-platinum-certification.aspx>

What is LEED?

U.S.G.B.C.

- Founded in 1993
- Non-profit trade organization
- Recognized the need for a way to define and measure sustainable or “green building”
- Works to promote buildings that are environmentally responsible, profitable, and healthy places to live and work



PLATINUM
52-69 pts

GOLD
39-51pts

SILVER
33-38 pts

CERTIFIED
26-32 pts

L.E.E.D.

- Leadership in Energy and Environmental Design
- Launched in 1998
- 69 point rating system (2008 v2.2)
- 80+ points 2009
- 100+ point future
- 6 focus areas:
 - Sustainable Sites
 - Water Efficiency
 - Energy & Atmosphere
 - Materials & Resources
 - Indoor Enviro. Quality
 - Innovation in Design

Brownfield Redevelopment



- Brownfield Redevelopment
- Downtown location promotes connectivity
- Adjacent to other Town Buildings

Site Selection



- Historic Downtown
- Redeveloped Town owned land
- Saved two large oaks
- Sidewalk connection
- Proximity to existing facilities



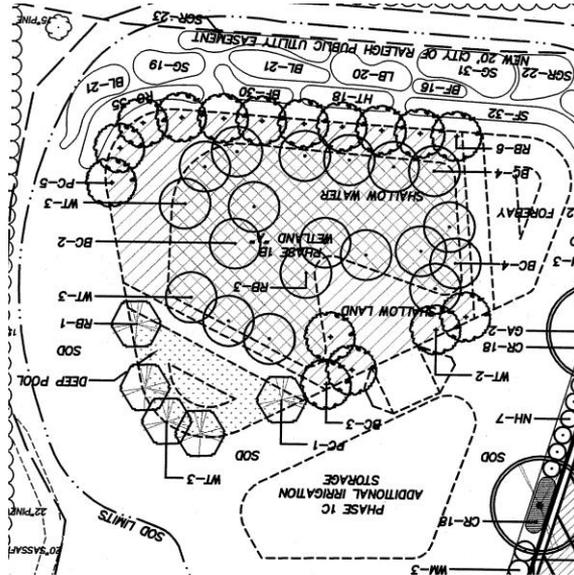
Native Non-Invasive Plants

Plant List Includes:

Urban Elm, Green Ash, Thornless Honey Locust,
Laurel Oak, Red Maple, Southern Magnolia,
Trident Maple, Neddlepoint Holly, Red Bud,
Burford Holly, Carolina Silverbell, Leyland Cypress,
Barberry, Daylily, Inkberry, Wax Myrtle, Flowering
Gardenia, Red Twig Dogwood, Creeping Raspberry,
Dwarf Cottoneaster, Variegated Liriope



Constructed Wetland

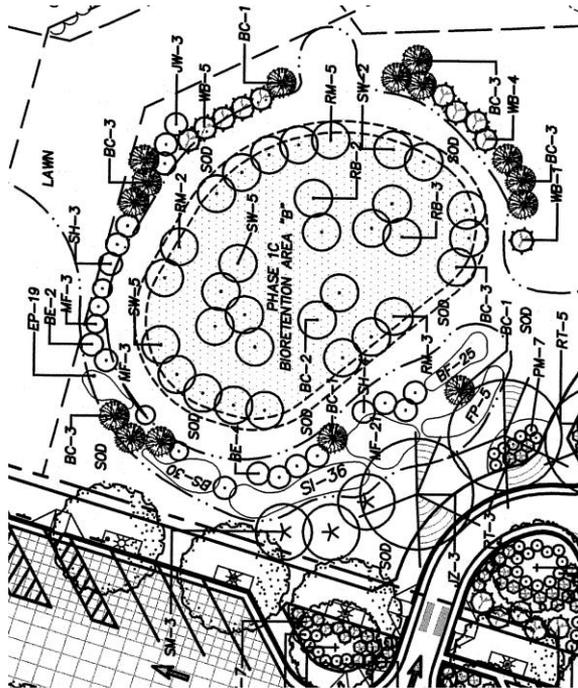


Plant List Includes:

Pond Cypress, River Birch, Bald Cypress, Water Tupelo, Spatterdock, Arrow Arum, Soft Rush, Soft Stem Bulrush, Blue Flag, Lizard's Tail, Tussock Sedge, Common Three Square, Duck Potato, Spiderlily, Big Blue Stem, Horsetail, Little Blue Stem, River Oats, Sweet Flag, Switchgrass



Bioretention Cell

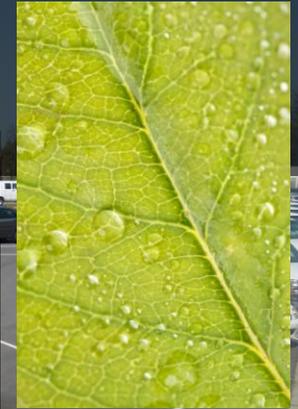


Plant List Includes:

Bald Cypress, Beauty Berry,
Blue Flag Iris, Coneflower, frost
proof Gardenia, Fountain Grass,
Swamp Hibiscus, Winterberry,
Swamp White Oak, Red Maple,
River Birch, Butterfly weed,
Louisiana Blue Star, Sweet Flag,
Narrow Leaf Blue Star, Possumhaw,
Wax Myrtle, Virginia Sweetspire

Reduce Heat Island Effect

- Green & open space
- Smaller drive isle width
- Diagonal parking
- Large 18" pavers for sidewalk
- Brick pavers in some parking areas
- White Roof



Light Pollution Reduction



- Madison Heads
- Lights off in Town Hall after hours



Solar Panels on Roof



TOWN of
WAKE FOREST

Materials & Resources (MR)



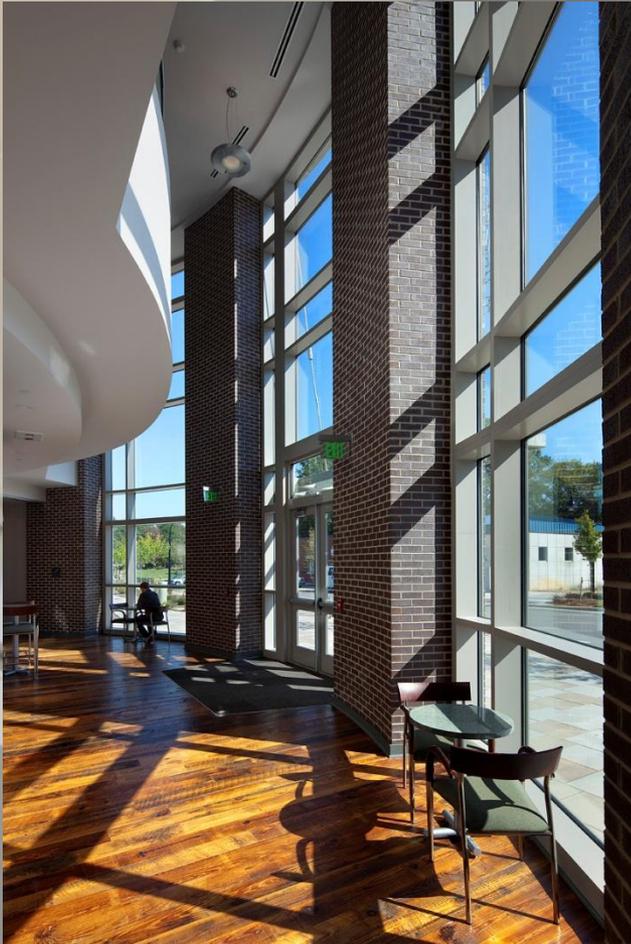
- As constructed over 98% of construction waste was diverted from the landfill.
- Wood from Old Tobacco barns used for flooring and divider wall
- Recycled materials comprised over 32% of the materials within the building
- More than 44% of the materials in the building were sourced within 500 miles of the project.
- Bamboo, a rapidly renewable materials, was used in wood panels and casework (furniture)
- At least 50% of the wood in the building was FSC Certified and sustainably harvested



Materials & Resources (MR)



Indoor Environmental Quality (IEQ)



Would you like a Tour?



TOWN of
WAKE FOREST